

HALF VOLTAGE GENERATOR FOR USE IN SEMICONDUCTOR MEMORY DEVICE

ABSTRACT

5 A voltage generator for use in a semiconductor memory device provides a stabilized output voltage of half a supply voltage Vcc. The voltage generator includes a reference voltage generator capable of generating first and second reference voltages. A differential amplification drive circuit is capable of generating an output voltage responsive to the first and second reference voltages. A resistance/diode reference voltage generator is capable of 10 generating third and fourth reference voltages. And a pull-up/down drive is capable of changing the output voltage responsive to the third and fourth reference voltages. The resulting voltage generator provides a stable and accurate output voltage that is resistant to output load variations.

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